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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Chappel, R. <i>et al.</i>	Examiner:	Hines, J.
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For:	Leptospira pathogens		

EXHIBIT A

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APPROVED	O. G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	



Figure 1

APPROVED	O. G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN:	

	1	50
HURSTBRIDGE	CCGAG TCTGG GATAA CTTTC CGAAA GGAAG GCTAA TACCG GATAG TCCCTG	
LYME	CCGAG TCTGG GATAA CTTTC CGAAA GGAAG GCTAA TACCG GATAG TCCTA	
RANARUM	CCGAG TCTGG GATAA CTTTC CGAAA GGAAG GCTAA TACTG GATAG TCCCG	
CELLEDONI	CCGAG TCTGG GATAA CTTTC CGAAA GGGGA GCTAA TACTG GATGG TCCCG	
SHERMANI	CCGAG TCTGG GATAA CTTTC CGAAA GGGGA GCTAA TACTG GATAG TCCCG	
JAVANICA	CCGAG TCTGG GATAA CTTTC CGAAA GGGGA GCTAA TACTG GATAG TCCCG	
PANAMA	CCGAG TCTGG GATAA CTTTC CGAAA GGGGA GCTAA TACTG GATAG TCCCG	
CYNOPTERI	CCGAG TCTGG GATAA CTTTC CGAAA GGGGA GCTAA TACTG GATGG TCCCG	
ICTERO-	CTGAG TCTGG GATAA CTTTC CGAAA GGGGA GCTAA TACTG GATGG TCCCG	
HAEMORRHAGIAE	* * *	** *
	51	100
HURSTBRIDGE	TTGGA TCACA AGATT TGATA GGTA AGATT TATTG CTTGG AGATG AGCCC	
LYME	CTGGA TCACA GGATC TGATA GGTA AGATT TATTG CTTGG AGATG AGCCC	
RANARUM	AGAGA TCATA AGATT TTTTC GGTA AGATT CATTG CTTGG AGATG AGCCC	
CELLEDONI	AGAGG TCATA TGATT TTTTC GGTA AGATT TATTG CTCGG AGCTG AGCCC	
SHERMANI	ATAGA TCATA GGATG TATCG GGTA AGATT CATTG CTCGG AGATG AGCCC	
JAVANICA	AGAGG TCATA GGATT TTTTC GGTA AGATT TATTG CTCGG AGATG AGCCC	
PANAMA	AGAGA TCATA AGATT TTTTC GGTA AGATT CATTG CTCGG AGATG AGCCC	
CYNOPTERI	AGAGA TCATA AGATT TTTTC GGTA AGATT TATTG CTCGG AGATG AGCCC	
ICTERO-	AGAGA TCATA AGATT TTTTC GGTA AGATT TATTG CTCGG AGATG AGCCC	
HAEMORRHAGIAE	*** * * * *	* *

Figure 2a

